PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference	FOR FURTHER	see Form PCT/ISA/220
P 04/032-do/gs	ACTION as	well as, where applicable, item 5 below.
International application No.	International filing date (day/month/year)	(Earliest) Priority Date (day/month/year)
PCT/EP2005/001445	14/02/2005	26/02/2004
Applicant		
MERCK PATENT GMBH		
This international Search Report has been according to Article 18. A copy is being tra	n prepared by this International Searching a	Authority and is transmitted to the applicant
This International Search Report consists	of a total of 6 sheets.	
· —	a copy of each prior art document cited in	this report.
	international search was carried out on the ess otherwise indicated under this item.	basis of the international application in the
The international this Authority (Ru		anslation of the international application furnished to
b. With regard to any nucleo	otide and/or amino acid sequence disclo	sed in the international application, see Box No. I.
2. X Certain claims were fou	nd unsearchable (See Box II).	·
3. Unity of invention is lac	king (see Box III).	
4. With regard to the title,		
the text is approved as su	ibmitted by the applicant.	
X the text has been establis	shed by this Authority to read as follows:	
BENZIMIDAZOLYL DERIVAT	rives as kinase inhibitors	3
5. With regard to the abstract,		
	ubmitted by the applicant.	
X the text has been establis	shed, according to Rule 38.2(b), by this Aut	hority as it appears in Box No. IV. The applicant
may, within one month fro	om the date of mailing of this international s	search report, submit comments to this Authority.
6. With regard to the drawings,		
	published with the abstract is Figure No	
as suggested by	the applicant.	
as selected by th	is Authority, because the applicant falled to	suggest a figure.
as selected by th	is Authority, because this figure better char	acterizes the invention.
b. none of the figures is to b	pe published with the abstract.	

International application No.

PCT/EP2005/001445

Box No. IV Text of the abstract (Continuation of item 5 of the first sheet)

The present invention relates to benzimidazolyl derivatives of formula I

$$(R^{8})_{\rho}$$
 $-Ar^{1}$ $\stackrel{H}{V}$ $\stackrel{H}{V}$ $\stackrel{E}{E}$ $\stackrel{D}{V}$ $\stackrel{N}{V}$ $\stackrel{N}{R}$ $\stackrel{10}{V}$

with the definitions of R⁸, p, Ar¹, E, D, R⁹, q and R¹⁰ according to Claim 1, the use of the compounds of formula I as inhibitors of one or more kinases, the use of the compounds of formula I for the manufacture of a pharmaceutical composition and a method of treatment, comprising administering said pharmaceutical composition to a patient.

International Application No PCT/EP2005/001445

A. CLASSIFICATION OF SUBJECT MATTER IPC 7 C07D401/12 C07D235/32 C07D235/30 C07D235/24 A61K31/4184

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

 $\begin{array}{ccc} \text{Minimum documentation searched (classification system followed by classification symbols)} \\ IPC & 7 & C070 \end{array}$

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, CHEM ABS Data, WPI Data, BEILSTEIN Data

C. DOCUMENTS CONSIDERED TO BE RELEVANT				
Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.		
P,X	WO 2004/037789 A (MERCK PATENT GMBH; BUCHSTALLER, HANS-PETER; WIESNER, MATTHIAS; SCHADT,) 6 May 2004 (2004-05-06) claims 1,2,7-31	1,2,5-30		
E	WO 2005/053692 A (THE SCRIPPS RESEARCH INSTITUTE; LIANG, CONGXIN) 16 June 2005 (2005-06-16) the whole document	1-31		
P,A	WO 2004/078748 A (BAYER PHARMACEUTICALS CORPORATION; DUMAS, JACQUES; BOYER, STEPHEN; VER) 16 September 2004 (2004-09-16) the whole document	1-31		

X Further documents are listed in the continuation of box C.	χ Patent family members are listed in annex.
 Special categories of cited documents: "A" document defining the general state of the art which is not considered to be of particular relevance "E" earlier document but published on or after the international filing date "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) "O" document referring to an oral disclosure, use, exhibition or other means "P" document published prior to the international filing date but later than the priority date claimed 	 "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art. "&" document member of the same patent family
Date of the actual completion of the international search 24 August 2005	Date of mailing of the international search report 12/09/2005
Name and mailing address of the ISA European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo ni, Fax: (+31-70) 340-3016	Authorized officer Von Daacke, A

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International Application No
PCT/EP2005/001445

		PCT/EP2005/001445
C.(Continua	ation) DOCUMENTS CONSIDERED TO BE RELEVANT	
Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	WO 02/44156 A (GLAXO GROUP LIMITED; GLAXOSMITHKLINE K.K; CHEUNG, MUI; HARRIS, PHILIP,) 6 June 2002 (2002-06-06) the whole document	1-31
A	WO 02/081463 A (TELIK, INC; SANWA KAGUKU KENKYUSHO CO., LTD) 17 October 2002 (2002-10-17) claims 1-53; table 11	1-31
X	DATABASE BEILSTEIN XP002341852 Database accession no. BRN 8049988 abstract & BARALDI, P.G. ET AL.: J.MED.CHEM., vol. 41, no. 17, 1998, pages 3174-3185,	. 30
X .	DATABASE BEILSTEIN XP002341853 Database accession no. BRN 8403709 abstract & MURAKAMI, Y. ET AL.: BIOORG.MED.CHEM., vol. 7, no. 8, 1999, pages 1703-1714,	

International application No. PCT/EP2005/001445

INTERNATIONAL SEARCH REPORT

Box II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)
This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:
1. X Claims Nos.: because they relate to subject matter not required to be searched by this Authority, namely:
Although claims 12, 22-27 and parts of Claims 14-21 are directed to a method of treatment of the human/animal body, the search has been carried out and based on the alleged effects of the compound/composition.
Claims Nos.: because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
3. Claims Nos.: because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).
Box III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)
This International Searching Authority found multiple inventions in this international application, as follows:
As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2. As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4. No required additional search fees were timely paid by the applicant. Consequently, this international Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:
Remark on Protest
No protest accompanied the payment of additional search fees.

Information on patent family members

International Application No
PCT/EP2005/001445

Patent document cited in search report		Publication date		Patent family member(s)	Publication date
WO 2004037789	Α	06-05-2004	AU	2003268926 A1	13-05-2004
			CA	2503445 A1	06-05-2004
			WO	2004037789 A2	06-05-2004
			EP	1562905 A2	17-08-2005
WO 2005053692	Α	16-06-2005	WO	2005054183 A2	16-06-2005
			WO	2005053692 A1	16-06-2005
			WO	2005053614 A2	16-06-2005
			WO	2005053686 A1	16-06-2005
WO 2004078748	Α	16-09-2004	US	2004235829 A1	25-11-2004
			US	2005032798 A1	10-02-2005
			US	2004229937 A1	18-11-2004
			WO	2004078747 A1	16-09-2004
			WO	2004078748 A2	16-09-2004
WO 0244156		06-06-2002	AU	3243902 A	11-06-2002
			ΕP	1341771 A2	10-09-2003
			JP	2004517080 T	10-06-2004
			WO	0244156 A2	06-06-2002
			US	2004082583 A1	29-04-2004
WO 02081463	Α	17-10-2002	BR	0208667 A	03-08-2004
			CA	2442776 A1	17-10-2002
			CN	1524078 A	25-08-2004
			EP	1383757 A1	28-01-2004
			JP	2004525951 T	26-08-2004
			WO	02081463 A1	17-10-2002
			US	2003092728 A1	15-05-2003
			US	2003092728 AT 2004127513 AT	01-07-2004